

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

5. Lease Serial No.

UTU-01196-B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

UNIT #891008900A

8. Lease Name and Well No.

NBU 1022-9K-2T

9. API Well No.

43047-38880

10. Field and Pool, or Exploratory

NATURAL BUTTES

11. Sec., T., R., M., or Blk. and Survey or Area

SEC. 9, T10S, R22E

12. County or Parish

UINTAH

13. State

UTAH

1a. Type of Work: ☒ DRILL

☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

☐ Single Zone ☒ Multiple Zone

2. Name of Operator

KERR MCGEE OIL & GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface NESW 2126'FSL, 1483'FWL

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*

24.35 MILES SOUTHEAST OF OURAY, UTAH

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

1483'

16. No. of Acres in lease

320.00

17. Spacing Unit dedicated to this well

40.00

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.

REFER TO  
TOPO C

19. Proposed Depth

8760'

20. BLM/BIA Bond No. on file

BOND NO: WY-2357

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5152'GL

22. Approximate date work will start\*

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature

Title

REGULATORY ANALYST

Approved by (Signature)

Title

Name (Printed/Typed)

SHEILA UPCHEGO

Date

10/24/2006

Name (Printed/Typed)

BRADLEY G. HILL

Date

11-07-06

Office ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

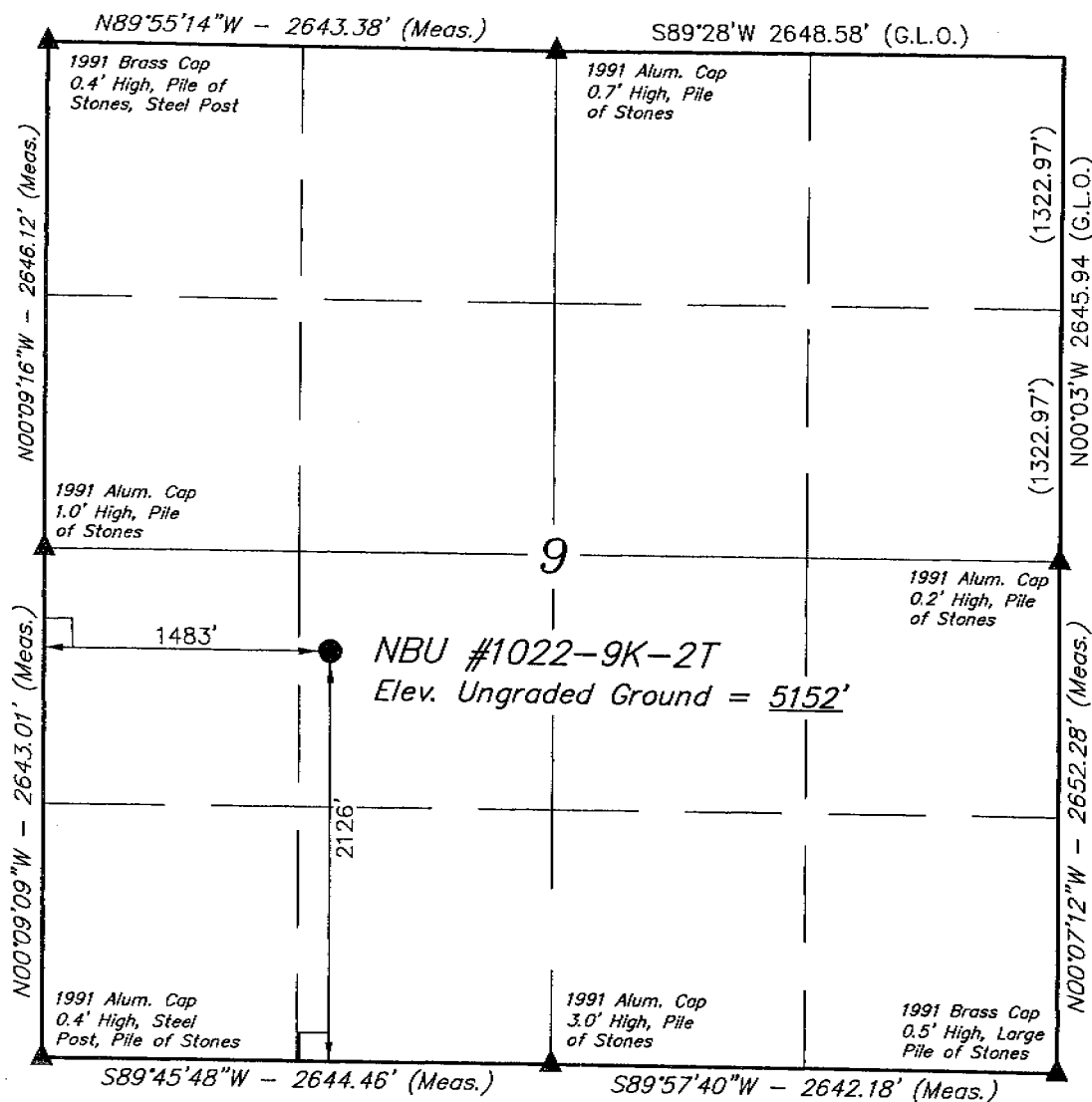
Federal Approval of this  
Action is Necessary

RECEIVED

NOV 01 2006

DIV. OF OIL, GAS & MINING

T10S, R22E, S.L.B.&M.



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 39°57'43.47" (39.962075)  
 LONGITUDE = 109°26'56.15" (109.448931)  
 (NAD 27)  
 LATITUDE = 39°57'43.59" (39.962108)  
 LONGITUDE = 109°26'53.69" (109.448247)

Kerr McGee Oil & Gas Onshore LP

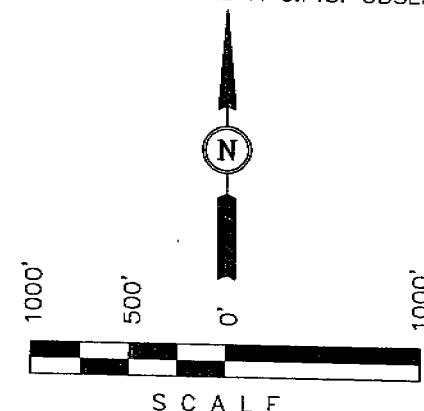
Well location, NBU #1022-9K-2T, located as shown in the NE 1/4 SW 1/4 of Section 9, T10S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

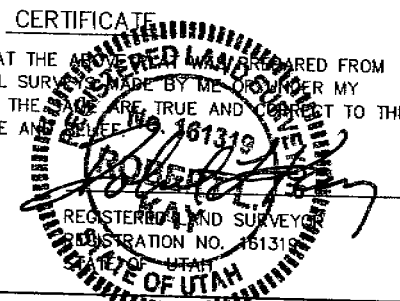
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 04-28-06	DATE DRAWN: 05-02-06
PARTY N.H. T.F. S.L.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE Kerr McGee Oil & Gas Onshore LP	

NBU #1022-9K-2T  
NESW SEC 9-T10S-R22E  
UINTAH COUNTY, UTAH  
UTU-01196-B

ONSHORE ORDER NO. 1

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1133'
Top of Birds Nest Water	1425'
Mahogany	2040'
Wasatch	4248'
Mesaverde	6744'
MVU2	7682'
MVL1	8223'
TD	8760'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1133'
	Top of Birds Nest Water	1425'
	Mahogany	2040'
Gas	Wasatch	4248'
Gas	Mesaverde	6744'
Gas	MVU2	7682'
Gas	MVL1	8223'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

4. **Proposed Casing & Cementing Program:**

*Please see the Natural Buttes Unit SOP.*

5. **Drilling Fluids Program:**

*Please see the Natural Buttes Unit SOP.*

6. **Evaluation Program:**

*Please see the Natural Buttes Unit SOP.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8760' TD, approximately equals 5431 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3504 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please see Natural Buttes Unit SOP.*

10. **Other Information:**

*Please see Natural Buttes Unit SOP.*



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE October 24, 2006  
WELL NAME NBU 1022-9K-2T TD 8,760' MD/TVD  
FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,152' GL KB 5,167'  
SURFACE LOCATION NWNESW SECTION 9, T10S, R22E 2126'FSL, 1483'FWL BHL Straight Hole  
Latitude: 39.962075 Longitude: 109.448931  
OBJECTIVE ZONE(S) Wasatch/Mesaverde  
ADDITIONAL INFO Regulatory Agencies: BLM, (SURF & MINERALS), UDOGM, Tri-County Health Dept.

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Catch water sample, if possible, from 0 to 4,248'					
	Green River @	1,133'			
	Top of Birds Nest Water @	1425'			
	Preset f/ GL @				
	2,000' MD				
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
	Mahogany @	2,040'			
Mud logging program TBD Open hole logging program f/ TD - surf csg					
	Wasatch @	4,248'	7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.7 ppg
	Mverde @	6,744'			
	MVU2 @	7,682'			
	MVL1 @	8,223'			
	TD @	8,760'			Max anticipated Mud required 11.7 ppg



# KERR-McGEE OIL & GAS ONSHORE LP

## DRILLING PROGRAM

### CASING PROGRAM

							DESIGN FACTORS		
	SIZE	INTERVAL	WT.	GR.	CPLG.		BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'					2270	1370	254000
SURFACE	9-5/8"	0 to 2000	32.30	H-40	STC	0.67*****	7780	1.46	4.49
PRODUCTION	4-1/2"	0 to 8760	11.60	I-80	LTC		2.29	6350	201000
								1.19	2.27

- 1) Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft - partial evac gradient x TD)
- (Burst Assumptions: TD = 11.7 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)
- MASP 3402 psi

\*\*\*\*\* Burst SF is low but csg is much stronger than formation at 2000' EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

### CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,740'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	410	60%	11.00	3.38
	TAIL	5,020'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1400	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

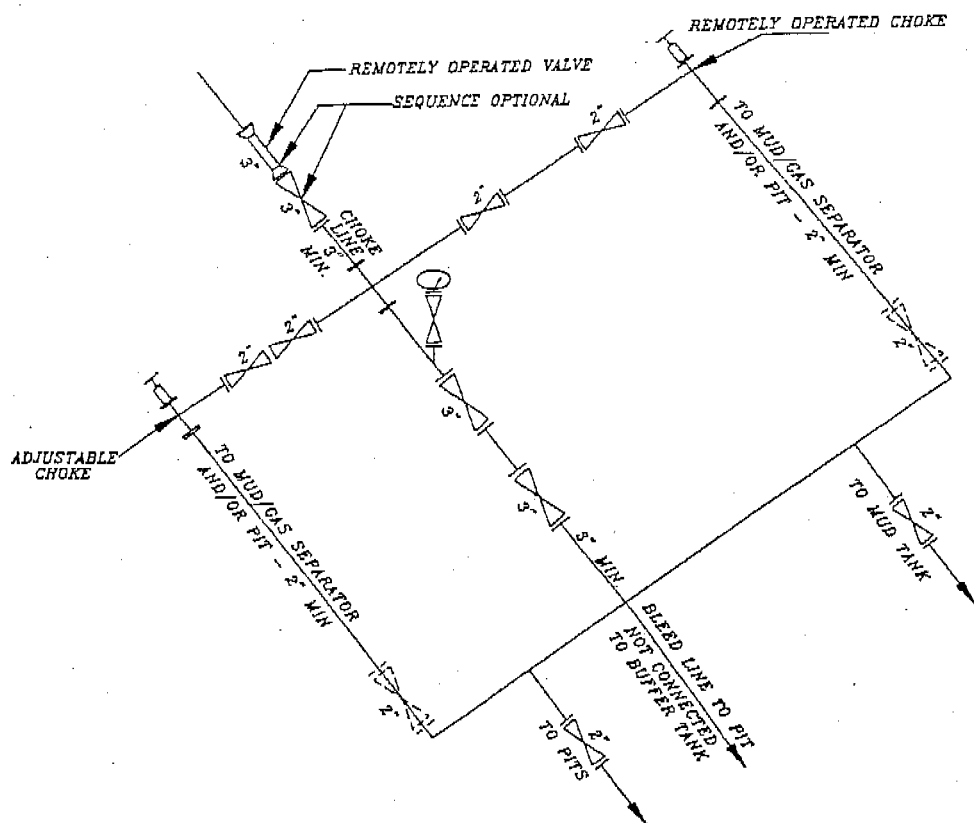
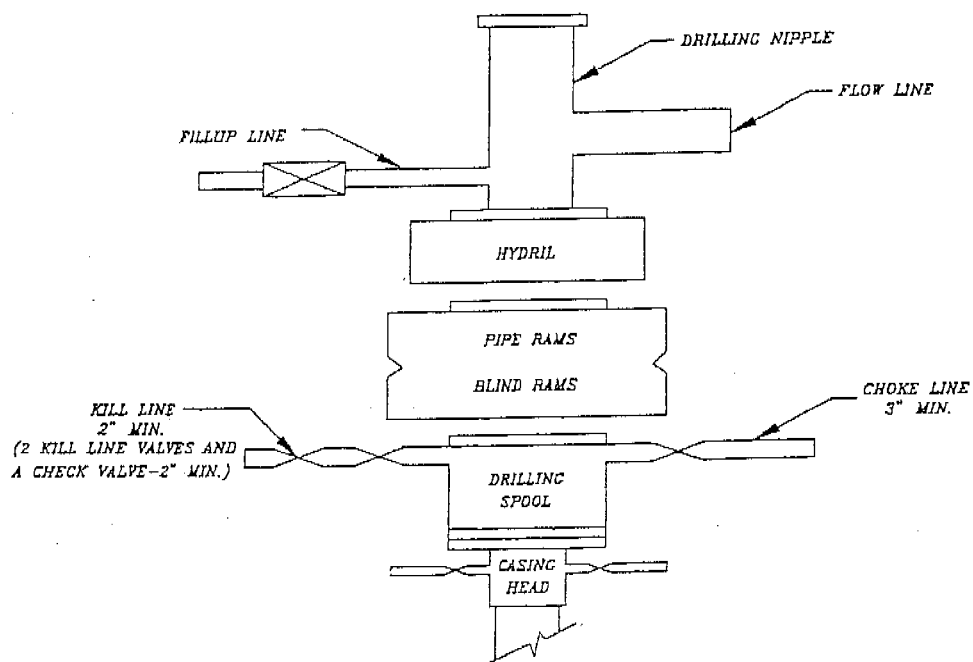
DATE:

DRILLING SUPERINTENDENT:

Randy Bayne

DATE:

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU #1022-9K-2T  
NESW SEC 9, T10S, R22E  
UINTAH COUNTY, UTAH  
UTU-01196-B

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

1. **Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

The operator will utilize an existing access road. Please refer to the attached Topo Map B.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

*Please see the Natural Buttes Unit SOP.*

The operator will utilize an existing 4" pipeline already in place. Refer to Topo Map D.

**Variances to Best Management Practices (BMPs) Requested:**

The pipeline shall be installed on surface within the access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible.

The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. **Location and Type of Water Supply:**

*Please see the Natural Buttes SOP.*



6. **Source of Construction Materials:**

*Please see the Natural Buttes SOP.*

7. **Methods of Handling Waste Materials:**

*Please see the Natural Buttes SOP.*

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

*Please see the Natural Buttes SOP.*

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A 20 mil reserve pit liner with felt will be used. As discussed at the on-site inspection.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

*Please see the Natural Buttes SOP.*

When the pit is backfilled, the topsoil pile shall be spread on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The following seed mixture will be used to reclaim the surface for interim reclamation using appropriate reclamation methods. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for *drilled* seed are:

No seed mix specified at the on-site inspection.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

**11. Surface Ownership:**

The well pad and access road are located on lands owned by:

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

**12. Other Information:**

A Class III Archaeological Survey Report No. 06-221, completed on May 29, 2006 for the well location; The paleontological Survey Report No. 06-193 completed on July 28, 2006; these reports are being submitted along with the Application for Permit to Drill (APD).

**13. Lessee's or Operator's Representative & Certification:**

Sheila Upchego  
Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7024

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7018

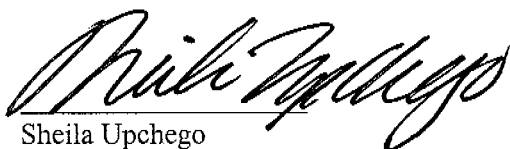
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by BLM Nationwide Bond #WY-2357.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Sheila Upchego

10/24/2006  
Date

Kerr-McGee Oil & Gas Onshore LP  
NBU #1022-9K-2T  
SECTION 9, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 7.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 350' TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 55.4 MILES.

# Kerr-McGee Oil & Gas Onshore LP

NBU #1022-9K-2T

LOCATED IN UTAH COUNTY, UTAH

SECTION 9, T10S, R22E, S.L.B.&M.

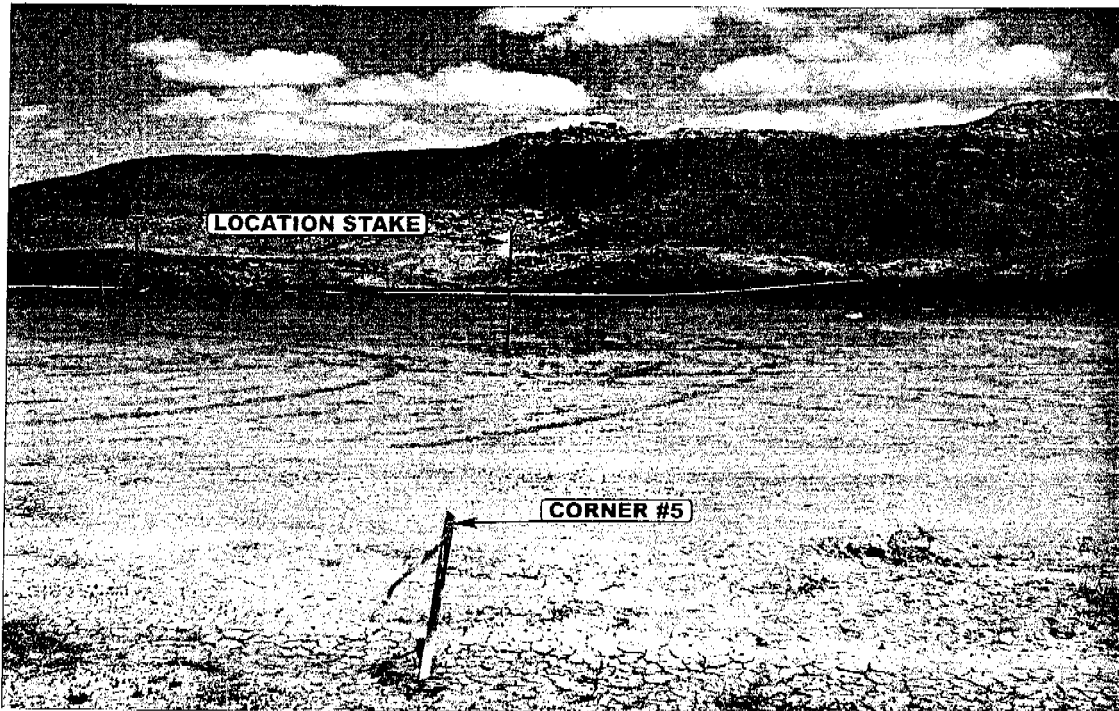


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NROTHEASTERLY



- Since 1964 -

**UELS**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

05  
MONTH

02  
DAY

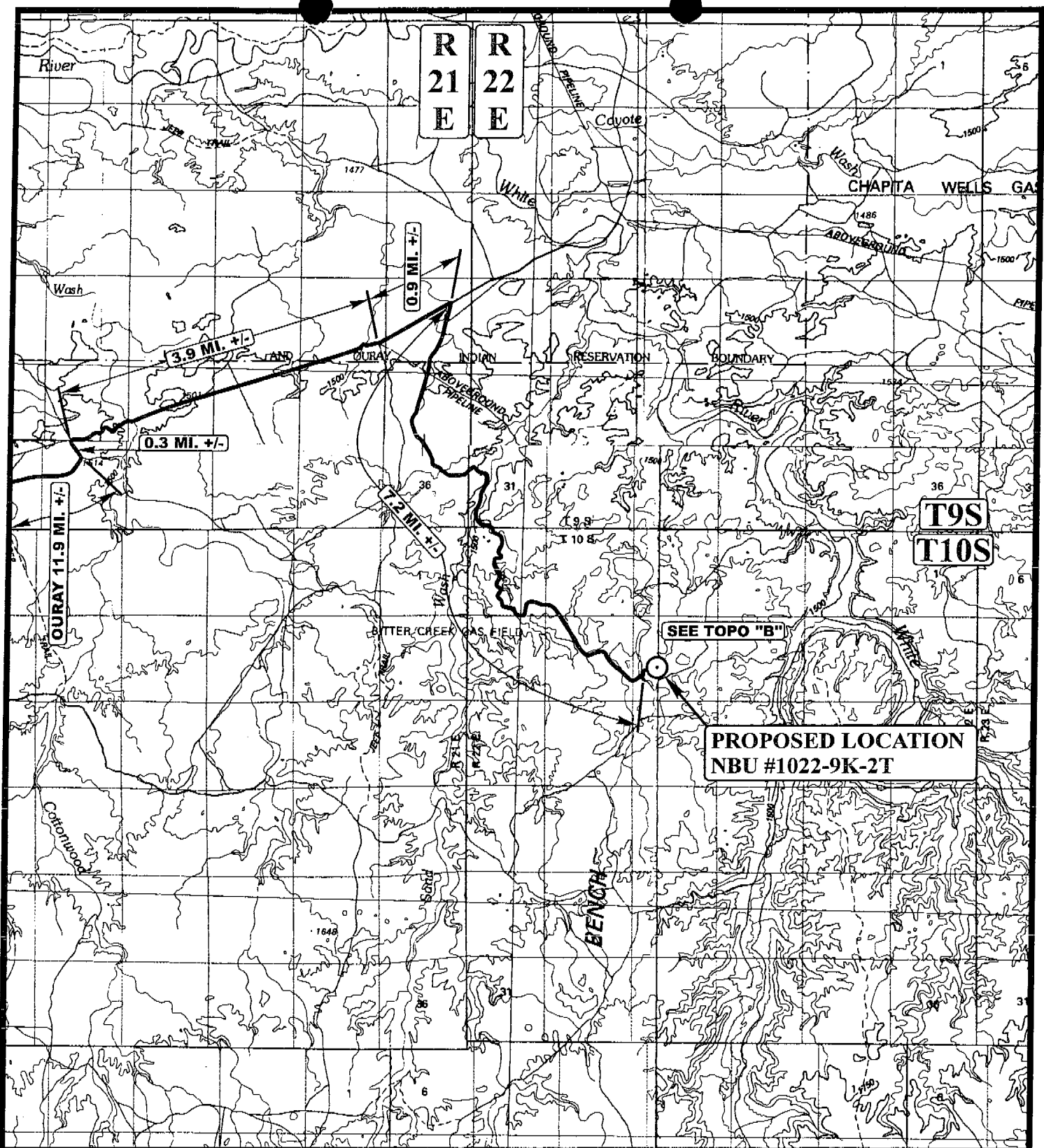
06  
YEAR

PHOTO

TAKEN BY: N.H.

DRAWN BY: C.P.

REVISED: 00-00-00



# **LEGEND:**

○ PROPOSED LOCATION



## **Kerr-McGee Oil & Gas Onshore LP**

NBU #1022-9K-2T

SECTION 9, T10S, R22E, S.L.B.&M.

2126' FSL 1483' FWL



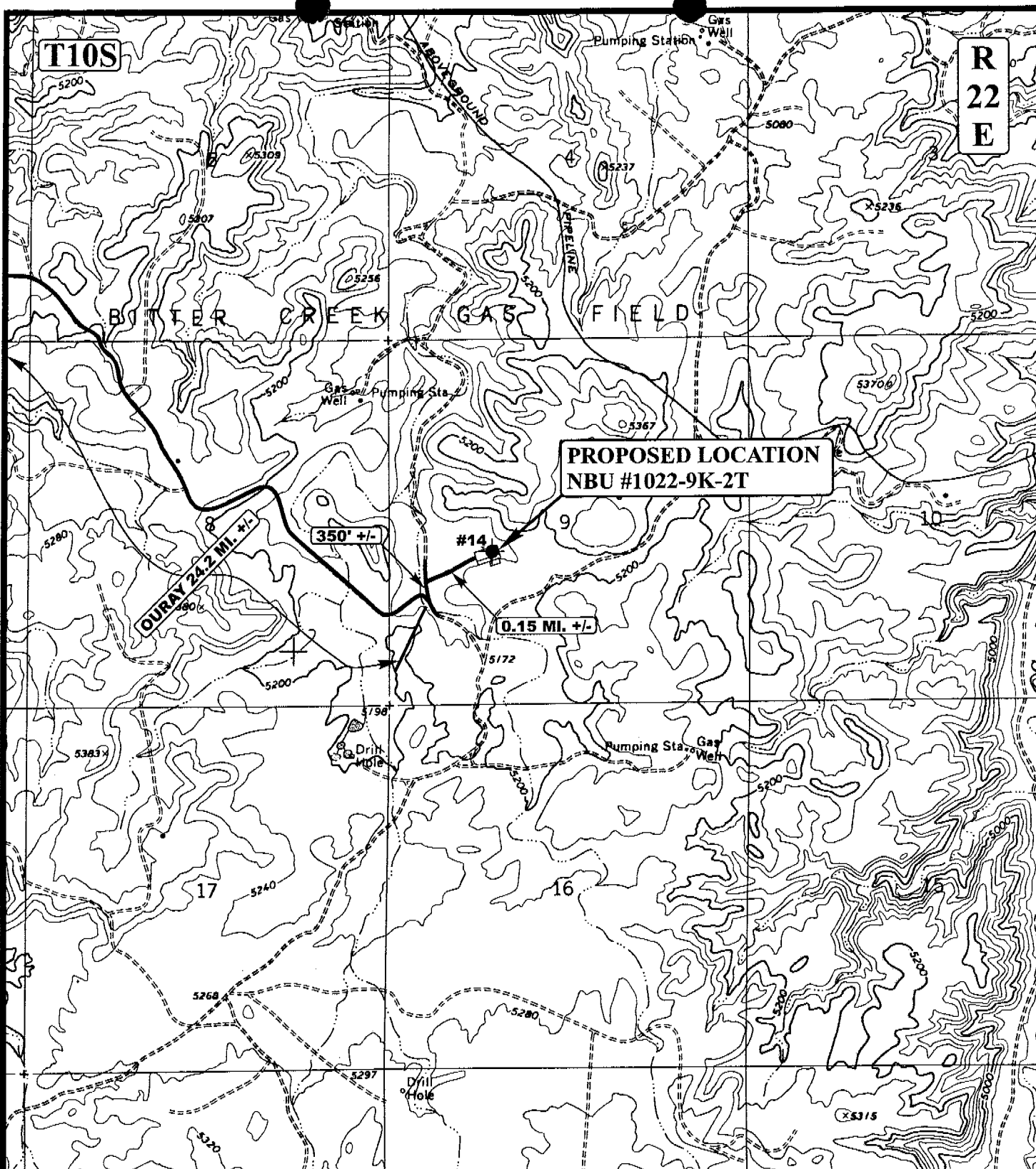
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
MAP

**05 02 06**  
MONTH DAY YEAR



SCALE: 1:100,000 | DRAWN BY: C.P. | REVISED: 00-00-00



# **LEGEND:**

————— EXISTING ROAD

## **Kerr-McGee Oil & Gas Onshore LP**

NBU #1022-9K-2T

SECTION 9, T10S, R22E, S.L.B.&M.

2126' FSL 1483' FWL



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

05	02	06
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00

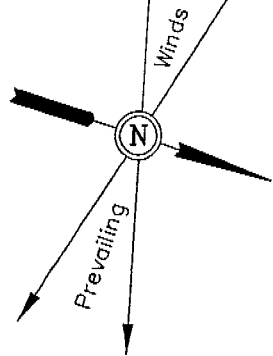




# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

LOCATION LAYOUT FOR  
NBU #1022-9K-2T  
SECTION 9, T10S, R22E, S.L.B.&M.  
2126' FSL 1483' FWL



SCALE: 1" = 50'  
DATE: 05-02-06  
Drawn By: S.L.

Approx.  
Top of  
Cut Slope

## NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.

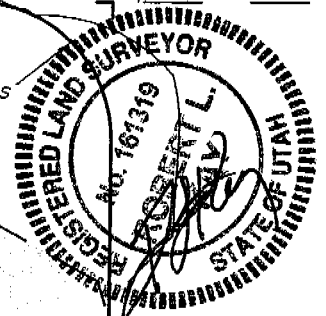
C-1.8'  
El. 54.1'

Existing  
Road

Existing  
Pipeline

F-5.8'  
El. 46.5'

Sta. 3+50



Round Corners  
as Needed

Existing  
Valve Building

Existing  
Filter Building

Existing  
Pipeline

Existing  
Well Pad

PIPE TUBS

PIPE RACKS

Anchor

GRADE  
El. 52.3'

Sta. 1+50

GRADE  
El. 52.3'

TOILET

TRAILER

WATER  
TANK

Approx.  
Toe of  
Fill Slope

El. 60.9'  
C-17.8'  
(btm. pit)

FLARE PIT

C-0.1'  
El. 52.4'

Boole Line

RESERVE PITS  
(10' Deep)

Total Pit Capacity  
W/2' of Freeboard  
= 9,850 Bbls. ±  
Total Pit Volume  
= 2,780 Cu. Yds.

15' WIDE BENCH

C-0.2'  
El. 52.5'

58'

135'

DOG HOUSE

LIGHT PLANT

BOILER

MUD TANKS

MUD TANKS

PUMP HOUSE

TRASH

PROpane  
STORAGE

Anchor

C-0.6'  
El. 52.9'

F-0.1'  
El. 52.2'

Sta. 0+00

C-0.6'  
El. 52.9'

Topsoil Stockpile

F-5.4'  
El. 46.9'

## NOTES:

Elev. Ungraded Ground At Loc. Stake = 5152.3'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5152.3'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

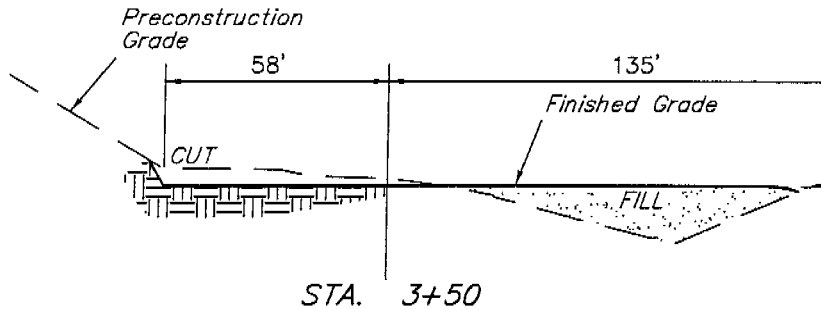
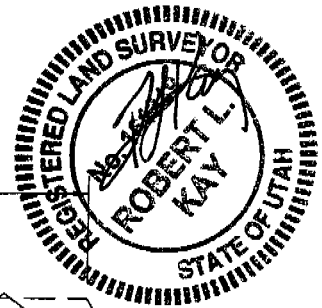
NBU #1022-9K-2T

SECTION 9, T10S, R22E, S.L.B.&M.

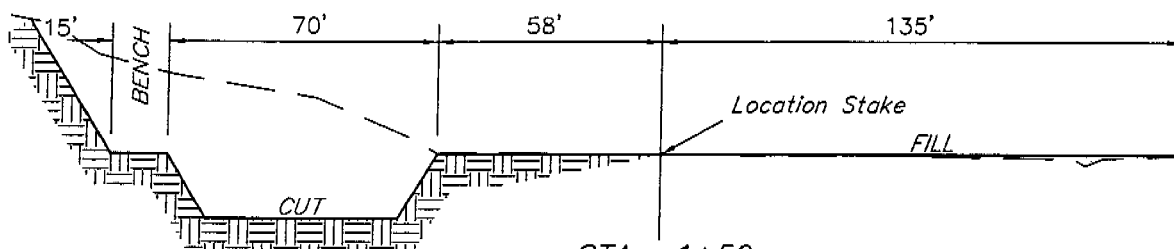
2126' FSL 1483' FWL

1" = 20'  
X-Section  
Scale  
1" = 50'

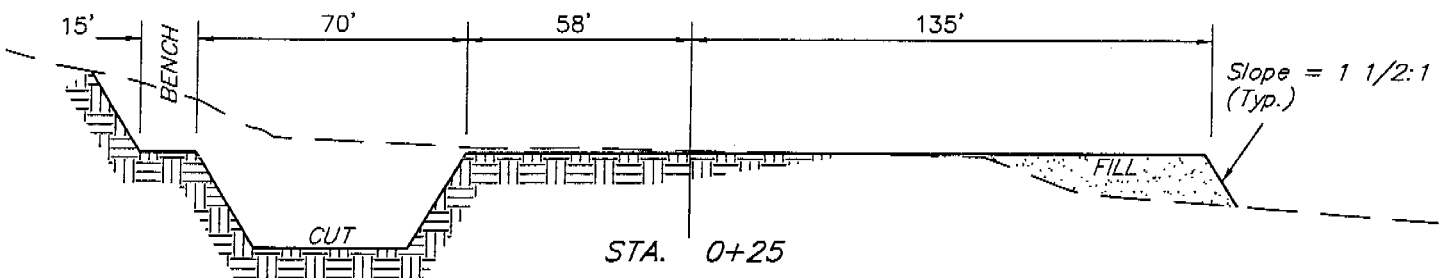
DATE: 05-02-06  
Drawn By: S.L.



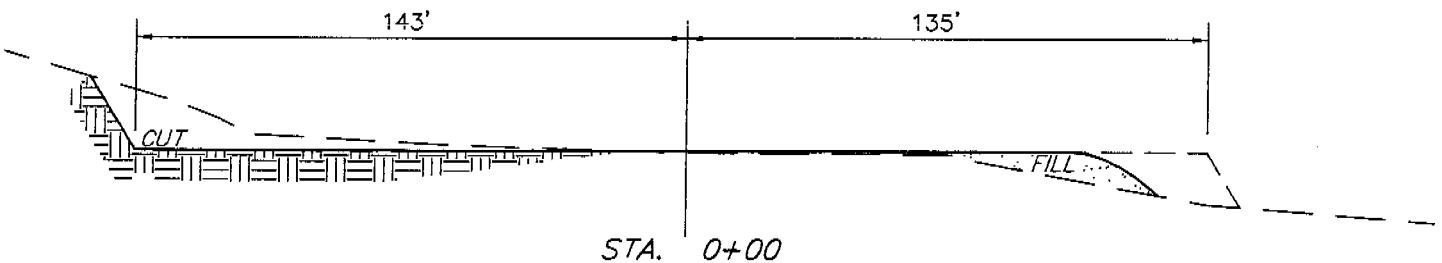
STA. 3+50



STA. 1+50



STA. 0+25



STA. 0+00

### NOTE:

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

### \* NOTE:

FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

#### CUT

(6") Topsoil Stripping = 790 Cu. Yds.

Remaining Location = 6,340 Cu. Yds.

TOTAL CUT = 7,130 CU.YDS.

FILL = 2,030 CU.YDS.

EXCESS MATERIAL = 5,100 Cu. Yds.

Topsoil & Pit Backfill = 2,180 Cu. Yds.  
(1/2 Pit Vol.)

EXCESS UNBALANCE = 2,920 Cu. Yds.  
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/01/2006

API NO. ASSIGNED: 43-047-38880

WELL NAME: NBU 1022-9K-2T

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

**PROPOSED LOCATION:**

NESW 09 100S 220E

SURFACE: 2126 FSL 1483 FWL

BOTTOM: 2126 FSL 1483 FWL

COUNTY: Uintah

LATITUDE: 39.96199 LONGITUDE: -109.4482

UTM SURF EASTINGS: 632545 NORTHINGS: 4424481

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01196-B

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WY-2357 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

R649-2-3.  
Unit: NATURAL BUTTES  
R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells  
R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 17914  
Eff Date: 12-2-99  
Siting: 460' fr u bary & antonin. trats  
R649-3-11. Directional Drill

COMMENTS:

*Sop, Separate file*

STIPULATIONS:

*1- Federal Approval  
2- OIL SHALE*



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

November 6, 2006

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2006 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Natural Buttes Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-38799	NBU 1022-27F Sec 27 T10S R22E 1809 FNL 1878 FWL	
43-047-38795	NBU 1022-270 Sec 27 T10S R22E 1016 FSL 2127 FEL	
43-047-38808	NBU 1022-34C Sec 34 T10S R22E 0655 FNL 1908 FWL	
43-047-38807	NBU 1022-34D Sec 34 T10S R22E 1067 FNL 0825 FWL	
43-047-38802	NBU 1022-22H Sec 22 T10S R22E 2442 FNL 0792 FEL	
43-047-38803	NBU 1022-22P Sec 22 T10S R22E 0636 FSL 0296 FEL	
43-047-38792	NBU 1022-22J Sec 22 T10S R22E 2257 FSL 2209 FEL	
43-047-38793	NBU 1022-22O Sec 22 T10S R22E 0576 FSL 1798 FEL	
43-047-38794	NBU 1022-22G Sec 22 T10S R22E 2277 FNL 1791 FEL	
43-047-38806	NBU 1022-34G Sec 34 T10S R22E 1991 FNL 2080 FEL	
43-047-38804	NBU 1022-27B Sec 27 T10S R22E 0228 FNL 1825 FEL	
43-047-38880	NBU 1022-9K-2T Sec 09 T10S R22E 2126 FSL 1483 FWL	

Our records indicate the 1022-270 is closer than 460 feet from the Natural Buttes Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:11-6-06



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

November 7, 2006

Kerr McGee Oil & Gas Onshore LP  
1368 S 1200 E  
Vernal, UT 84078

Re: Natural Buttes Unit 1022-9K-2T Well, 2126' FSL, 1483' FWL, NE SW, Sec. 9,  
T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38880.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Kerr McGee Oil & Gas Onshore LP  
**Well Name & Number** Natural Buttes Unit 1022-9K-2T  
**API Number:** 43-047-38880  
**Lease:** UTU-01196-B

**Location:** NE SW                      **Sec.** 9                      **T.** 10 South                      **R.** 22 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

5. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

UTU-01196-B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

UNIT #891008900A  
NATURAL BUTTES

8. Well Name and No.

NBU 1022-9K-2T

9. API Well No.

4304738880

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR MCGEE OIL AND GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST, VERNAL, UTAH 84078

3b. Phone No. (include area code)

(435)781-7003

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2126'FSL-1483'FWL

NESW SEC 9-T10S-R22E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other APD EXTENSION
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	DOGM
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE OPERATOR REQUESTS AUTHORIZATION FOR A ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION SO THAT THE DRILLING OPERATIONS MAY BE COMPLETED. THE ORIGINAL APD WAS APPROVED BY THE DIVISION OF OIL, GAS AND MINING ON FEBRUARY 7, 2006.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 11-05-07  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 11-5-07  
Initials: km

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

SHIELA UPCHEGO

Title

SENIOR LAND ADMIN SPECIALIST

Signature

Date

October 11, 2007

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

(Instructions on reverse)

NOV 01 2007

DIV. OF OIL, GAS & MINING



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 4304738880  
Well Name: NBU 1022-9K-2T  
Location: NESW SEC 9-T10S-R22E  
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE LP  
Date Original Permit Issued: 11/7/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

10/11/2007

Date

Title: SENIOR LAND ADMIN SPECIALIST

Representing: KERR-MCGEE OIL & GAS ONSHORE LP

**RECEIVED**

**NOV 01 2007**

**DIV. OF OIL, GAS & MINING**

4006GM

Form 3160-3  
(August 1999)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

5. Lease Serial No.

UTU-01196-B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

UNIT #891008900A

8. Lease Name and Well No.

NBU 1022-9K-2T

9. API Well No.

43 047 38886

10. Field and Pool, or Exploratory  
NATURAL BUTTES

11. Sec., T., R., M., or Blk, and Survey or Area

SEC. 9, T10S, R22E

12. County or Parish  
UINTAH13. State  
UTAH1a. Type of Work: ☒ DRILL☐ REENTERb. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other☐ Single Zone ☒ Multiple Zone

2. Name of Operator

KERR McGEE OIL &amp; GAS ONSHORE LP

3A. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface NESW 2126'FSL, 1483'FWL

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*

24.35 MILES SOUTHEAST OF OURAY, UTAH

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)

1483'

16. No. of Acres in lease

320.00

17. Spacing Unit dedicated to this well

40.00

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.REFER TO  
TOPO C19. Proposed Depth  
8760'20. BLM/BIA Bond No. on file  
BOND NO: WY-2357

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5152'GL

22. Approximate date work will start\*

23. Estimated duration

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office.4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the  
authorized office.

25. Signature

Name (Printed/Typed)

SHEILA UPCHEGO

Date

10/24/2006

Title

REGULATORY ANALYST

Approved by (Signature)

Name (Printed/Typed)

JERRY KENCERKA

Date

7-16-2008

Title

Assistant Field Manager  
Lands & Mineral Resources

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct  
operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

JUL 18 2008

Entered in AFMSS

Date 11-20-06

DIV. OF OIL, GAS &amp; MINING

06 BM 1753A

NOS 5/17/06



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Kerr-McGee Oil and Gas Onshore LP Location: NESW, Sec. 9, T10S, R22E  
Well No: NBU 1022-9K-2T Lease No: UTU-01196-B  
API No: 43-047-38880 Agreement: Natural Buttes Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural contours, topsoil respread where appropriate, and the entire location seeded with the recommended seed mix. Seeding shall take place by broadcasting the seed and walking it into the soil with a dozer immediately after the dirt work is completed.
- Seeding shall occur in the fall (August 1<sup>st</sup> until snow or ground is frozen).

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Cement bond log shall be run to TOC and a field copy must be submitted to this office.
- Pressure integrity test of each casing shoe shall be performed.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01196B
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217-3779 PHONE NUMBER: (720) 929-6226		7. UNIT or CA AGREEMENT NAME: UTU-63047A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2126' FSL & 1483' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 9 10S 22E		8. WELL NAME and NUMBER: NBU 1022-9K-2T 9. API NUMBER: 4304738880 10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field
		COUNTY: Uintah STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP, respectfully requests a one year extension for this APD in order to complete drilling operations. The Utah Division for Oil, Gas, and Mining initially approved this APD on 11/7/2006.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 11-05-08  
By: [Signature]

NAME (PLEASE PRINT) <u>Kevin McIntyre</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <u>[Signature]</u>	DATE <u>11/3/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 11.16.2008

Initials: VS

(See Instructions on Reverse Side)

RECEIVED

NOV 04 2008

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304738880  
**Well Name:** NBU 1022-9K-2T  
**Location:** NESW 2126' FSL & 1483' FWL, Sec. 9, T10S, R22E  
**Company Permit Issued to:** Kerr-McGee Oil & Gas Onshore, LP  
**Date Original Permit Issued:** 11/7/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

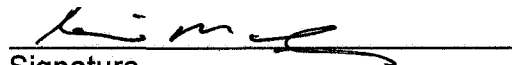
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

11/3/2008  
Date

Title: Regulatory Analyst

Representing: Kerr-McGee Oil & Gas Onshore, LP

**RECEIVED**  
NOV 04 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill, or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

## SUBMIT IN TRIPLICATE

## 1 TYPE OF WELL

Oil Well ☐ Gas Well ☒ Other: \_\_\_\_\_

## 2. NAME OF OPERATOR

Kerr-McGee Oil &amp; Gas Onshore LP

## 3. ADDRESS AND TELEPHONE NO.

1099 18th Street, Suite 1800  
Denver, CO 80202

CONTACT: Danielle Piernot

PHONE: 720-929-6156

danielle.piernot@anadarko.com

## 4. LOCATION OF WELL (Footage, T, R, M, or Survey Description)

2,126' FSL 1,483' FWL NESW Sec. 9 T10S R22E  
Lat. 39.962075 Long. -109.448931 NAD 83

## 5. LEASE SERIAL NO.

UTU01196B

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

## 7. IF UNIT OR CO-AGREEMENT, NAME AND/OR NO.

891008900A

## 8. WELL NAME AND NO.

NBU 1022-9K-2T

## 9. API WELL NO.

43-047-38880

## 10. FIELD AND POOL, OR EXPLORATORY AREA

Natural Buttes

## 11. COUNTY OR PARISH, STATE

Uintah, Utah

## 12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐

Acidize

☒

Alter Casing

☐

Casing Repair

☐

Change Plans

☐

Convert to Injection

☐

Deepen

☐

Fracture Treat

☐

New Construction

☐

Plug and Abandon

☐

Plug Back

☐

Production (start/resume)

☐

Reclamation

☐

Recomplete

☐

Temporarily Abandon

☐

Water Disposal

☐

Water Shut-Off

☐

Well Integrity

☐

Other

13. Describe Proposed or completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a form 3160-4 must be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

An APD for this location was submitted to the BLM and UDOGM and was assigned API 49-047-38880.

UDOGM approved their portion of the APD on November 7, 2006 and approved Extensions on November 5, 2007 and again on November 5, 2008. The BLM approved their portion of the APD on July 16, 2008.

Kerr-McGee respectfully requests to change the surface casing for this well due to revised drilling practices.

The surface casing is changing

FROM: 2,000'

TO: 2,250'

Please see the attached drilling diagram for additional details. All other information remains the same.

Thank you.

## 14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Danielle Piernot

Title Regulatory Analyst

Date: 4.28.2009

Signature

Danielle Piernot

Date April 15, 2009

Initials: KS

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE.

Approved by

D. Piernot

Title

Pet Eng.

Date

4/23/09

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

DOGM

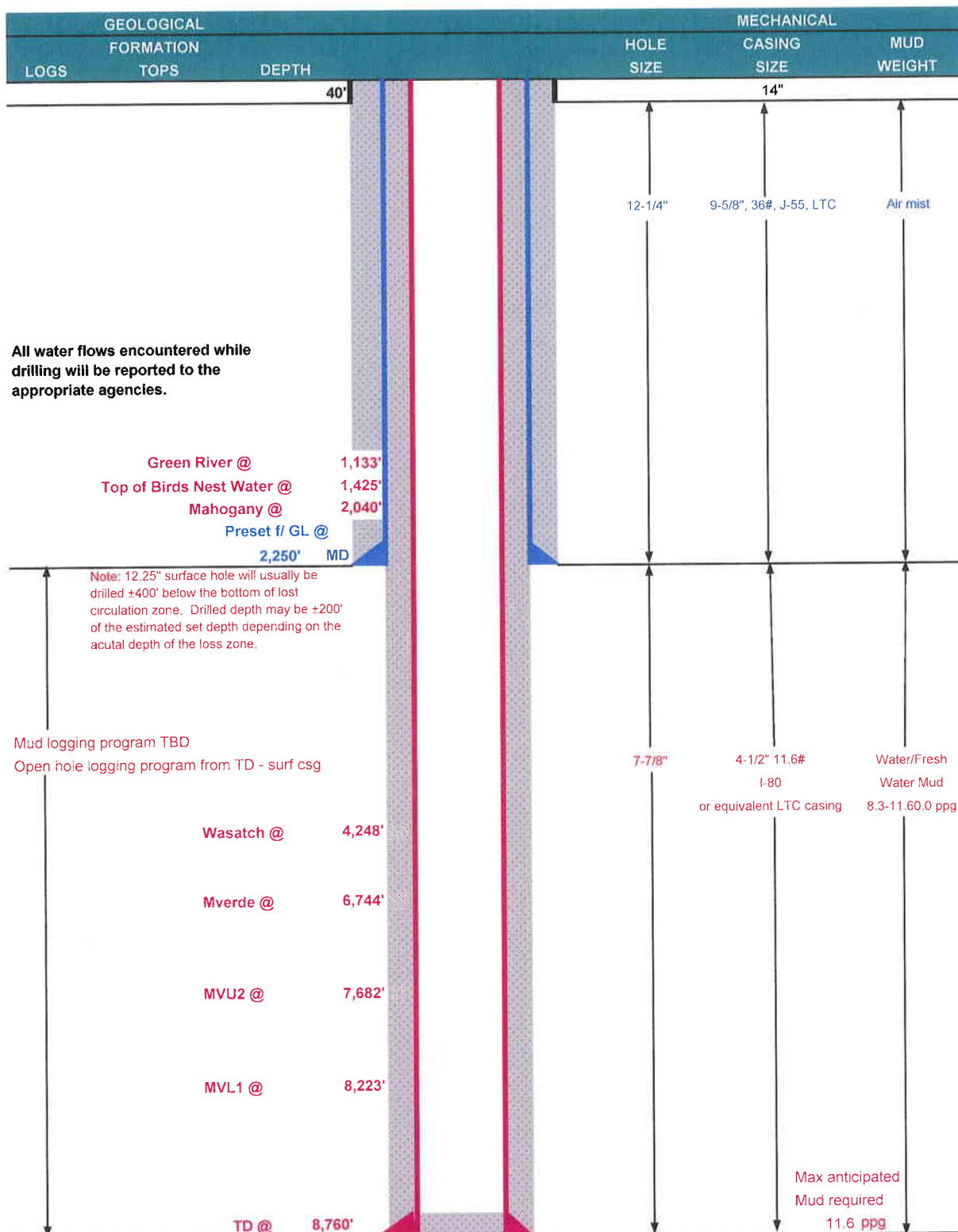
Federal Approval Of This  
Action Is Necessary

RECEIVED

APR 16 2009

**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

COMPANY NAME		KERR-McGEE OIL & GAS ONSHORE LP			DATE		April 14, 2009		
WELL NAME		NBU 1022-9K-2T			TD		8,760' MD/TVD		
FIELD		Natural Buttes		COUNTY		Uintah	STATE		Utah
SURFACE LOCATION		SW/4 NE/4		2,126' FSL		1,483' FWL		Sec 9 T 10S R 22E	
		Latitude: 39.962075		Longitude: -109.448931				NAD 83	
OBJECTIVE ZONE(S)		Wasatch/Mesaverde							
ADDITIONAL INFO		Regulatory Agencies: BLM (Minerals), BLM (Surface), Tri-County Health Dept							





# KERR-McGEE OIL & GAS ONSHORE LP

## DRILLING PROGRAM

### CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2250	36.00	J-55	LTC	1.05	1.92	7.12
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 8760	11.60	I-80	LTC	2.32	1.20	2.27

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.6 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

MASP 3,258 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 11.6 ppg)

0.59 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

MABHP 5,185 psi

### CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ .25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,740'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel	380	60%	11.00	3.38
			+ 0.5% extender				
	TAIL	5,020'	50/50 Poz/G + 10% salt + 2% gel	1410	60%	14.30	1.31
			+ .1% R-3				

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip.

Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Grant Schluender

DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01196-B
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-9K-2T
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2126 FSL 1483 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 09 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047388800000
<b>PHONE NUMBER:</b> 720 929-6587 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input checked="" type="checkbox"/> <b>SPUD REPORT</b> Date of Spud: 5/18/2009	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 05/18/2009 AT 1530 HRS.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> May 19, 2009		
<b>NAME (PLEASE PRINT)</b> Sheila Upchego	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/19/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01196-B
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-9K-2T
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2126 FSL 1483 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 09 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047388800000
<b>PHONE NUMBER:</b> 720 929-6587 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> Uintah		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 5/30/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>CHANGE WELL TYPE</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>NEW CONSTRUCTION</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PLUG BACK</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TEMPORARY ABANDON</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER DISPOSAL</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>APD EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> MIRU PROPETRO AIR RIG ON 05/27/2009. DRILLED 12 1/4" SURFACE HOLE TO 2050'. RAN 9 5/8" 36# J-55 SURFACE CSG. PMP 260 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DROP PLUG ON FLY DISPLACE W/152.4 BBLS OF 8.3# H 20 BUMP PLUG W/500 PSI FLOAT HELD NO CMT TO SURFACE. TOOK OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO CMT TO SURFACE. 2ND TOP OUT W/90 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO CMT TO SURFACE. 3RD TOP OUT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. 3 BBLS OF CMT TO SURFACE AND STAYED FULL WASH UP AND RIG DOWN. WORT		
<b>NAME (PLEASE PRINT)</b> Sheila Upchego		<b>PHONE NUMBER</b> 435 781-7024
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst
		<b>DATE</b> 6/1/2009



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01196-B
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-9K-2T
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2126 FSL 1483 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 09 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047388800000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> Uintah		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 9/24/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>		
FINISHED DRILLING FROM 2050' TO 8726' ON 9/22/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS WATER SPACER @ 8.3 PPG. LEAD CMT W/462 SX CLASS G PREM LITE @ 11.6 PPG, 2.62 YIELD. TAILED CMT W/1223 SX CLASS G 50/50 POZ @ 14.3 PPG, 1.31 YIELD. FLUSH LINES DROP PLUG & DISPLACE W/135.8 BBLS WATER @ 8.3 PPG W/ CLAYTREAT GL MAGNACIDE & CORR INHIBITER. BUMP PLUG W/3165 PSI, ORIGINAL PUMP PSI 2550, 616 OVER PSI, 100% RETURNS W/40 BBLS CMT BACK TO SURFACE. RELEASE PIONEER RIG 69 ON 09/24/2009 AT 12:30 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> September 24, 2009		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 9/24/2009



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01196-B
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-9K-2T
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2126 FSL 1483 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 09 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047388800000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/25/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>CHANGE WELL TYPE</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>NEW CONSTRUCTION</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG BACK</b>	
	<input checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/25/2009 AT 11:00 A.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> November 03, 2009		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/29/2009	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 1022-9K-2T		Spud Conductor: 5/18/2009		Spud Date: 5/27/2009	
Project: UTAH-UINTAH		Site: CIGE 14 PAD		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 3/24/2009		End Date: 9/24/2009	
Active Datum: RKB @5,170.00ft (above Mean Sea Level)		UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/27/2009	10:00 - 12:00	2.00	MIRU	01	B	P		MOVE IN AND RIG UP PROPETRO RIG #11
	12:00 - 15:00	3.00	DRLSUR	02	A	P		PICK UP AIR HAMMER AND DRILL TO 150'.
	15:00 - 16:00	1.00	DRLSUR	06	A	P		TRIP OUT OF HOLE AND LD AIR HAMMER AND P/U MAGNA SONIC RANGE TOOLS.
	16:00 - 23:30	7.50	DRLSUR	02	B	P		DRILL 150'- 373' DRILLING W/ MOTOR AND 12 1/4 PDC HUGHES 507C.
	23:30 - 0:00	0.50	DRLSUR	10	B	P		SURVEYS. 79' FROM EXISTING WELL BORE
5/28/2009	0:00 - 10:00	10.00	DRLSUR	02	B	P		DRILL 373'-820' WOB 10-13K, ROT 30 RPM, OFF PSI 1000, 1300 PSI ON.
	10:00 - 11:30	1.50	DRLSUR	08	B	Z		CHANGE OUT SWIVEL PACKING, RETAP BLOTS IN HEAD.
	11:30 - 0:00	12.50	DRLSUR	02	B	P		DRILL 820'- 1370', WOB 10-13K, RPM 30, OFF/ON PSI 1050/1350. 588 GPM.
5/29/2009	0:00 - 14:00	14.00	DRLSUR	02	B	P		DRILL F/ 1370 TO 2050' BIT WT 18-20K TOP HEAD 30 RPM MM 94 RPM OFF/ON PSI 1000/1300 TD 5/29/2009 14:00.
	14:00 - 14:30	0.50	CSG	05	A	P		CIRC. AT TD CLEAN HOLE TO LAY DOWN DP
	14:30 - 19:30	5.00	CSG	06	D	P		LAY DOWN DRILL STRING.
	19:30 - 23:30	4.00	CSG	12	C	P		RUN 46 JTS OF 9 5/8 CSG 36# J-55 LT&C SHOE @ 2017'GL FLOAT COLLAR @ 1973' GL.
	23:30 - 0:00	0.50	RDMO	01	E	P		RIG DOWN PROPETRO RIG # 11, AND RIG UP PRO PETRO CEMENTERS. RIG #11 RELEASE 00:00 5/29/2009.
5/30/2009	0:00 - 0:30	0.50	CSG	12	E	P		RIG UP CEMENTERS
	0:30 - 1:30	1.00	CSG	12	E	P		PUMP FLUSH OF 140 BBLS OF 8.3# H2O, PUMP 20 BBLS OF GEL WATER, PUMP 260 SX (53.3 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK PREMIUM CEMENT, DROP PLUG ON FLY, DISPLACE W/152.4 BBLS OF 8.3# H2O, BUMP LUG W/ 500 PSI, FLOAT HELD. NO CEMENT TO SURFACE
	1:30 - 3:30	2.00	CSG	12	E	P		INITIAL TOP OUT, 100 SX (20.5 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK, OF PREMIUM CEMENT. 4 % CALC. NO CEMENT TO SURFACE
	3:30 - 5:30	2.00	CSG	12	E	P		TOP OUT #2, PUMP 90 SX(18.5#) OF 15.8 #, 1.15 YD, 5 GAL/SK OF PREMIUM CEMENT 4 % CALC. NO CEMENT TO SURFACE.
	5:30 - 6:00	0.50	CSG	12	E	P		TOP OUT #3, PUMP 150 SX (30.7 BBLS) OF 15.8#, 1.15 YD, 5 GAL /SK OF PREMIUM CEMENT. + 4 % CALC. 3 BBLS OF CEMENT TO SURFACE AND STAYED. WASH UP AND RIG DOWN PRO PETRO.
								RDRT
9/17/2009	0:00 - 6:30	6.50	DRLPRO	01	E	P		SCOPE DOWN DERRICK,LAY DERRICK ON CARRIER & SCOPE DOWN SUB,FINISH RIG DOWN. MOVE RT TO NBU 1022-9K-2T. SCOPE SUB,RAISE DERRICK OFF CARRIER.ATTEMPT TO SCOPE DERRICK & BLEW HYDRAULIC LINE,WAITING ON NEW HYDRAULIC LINE TO SCOPE DERRICK.REPLACE HYDRAULIC LINE & SCOPE DERRICK.
	6:30 - 18:00	11.50	DRLPRO	01	A	P		RURT
	18:00 - 21:00	3.00	DRLPRO	01	B	P		NIPPLE UP BOP
9/18/2009	21:00 - 0:00	3.00	DRLPRO	14	A	P		
	0:00 - 1:00	1.00	DRLPRO	14	A	P		NIPPLE UP BOP

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# US ROCKIES REGION

## Operation Summary Report

Well: NBU 1022-9K-2T		Spud Conductor: 5/18/2009		Spud Date: 5/27/2009	
Project: UTAH-UINTAH		Site: CIGE 14 PAD			Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING		Start Date: 3/24/2009		End Date: 9/24/2009	
Active Datum: RKB @5,170.00ft (above Mean Sea Level)		UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	1:00 - 5:00	4.00	DRLPRO	15	A	P		HELD SAFETY MEETING. RIG UP B & C QUICK TEST. TEST PIPE RAMS, BLIND RAMS, CHOKE & ALL FLOOR RELATED VALVES F/ 250 PSI LOW TO 5000 PSI HIGH. TEST HYDRILL 250 PSI LOW TO 2500 PSI HIGH. TEST CSG 1500 PSI & HOLD 30 MIN.RIG DOWN B & C QUICKTEST. INSTALL WEAR BUSHING.
	5:00 - 10:00	5.00	DRLPRO	06	A	P		HELD SAFETY MEETING. RIG UP KIMZEY CSG & PICK UP BHA,DIRECTIONAL TOOLS & 43 JTS DP TO 1886'. RIG DOWN KIMZEY.
	10:00 - 11:30	1.50	DRLPRO	09	A	P		SLIP & CUT DRLG LINE
	11:30 - 13:00	1.50	DRLPRO	07	A	P		INSTALL ROTATING HEAD RUBBER, CIRC & DO PRE SPUD RIG INSPECTION & RIG SERVICE.
	13:00 - 14:30	1.50	DRLPRO	02	F	P		DRILL FLOAT EQUIPMENT & 47' OPEN HOLE TO 2068' CMT 1818' FLOAT 1979' SHOE 2021' ROTARY SPUD 14:30 09/18/2009
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRILL,SLIDE & SURVEY 2068'-3193' 1125' @ 118 FPH, WOB 16-18, RPM 45, MRPM 98, SPM 125, GPM 473, PU/SO/ROT 100/80/97, ON/OFF PSI 1571/1295, DIFF PSI 276. SWEEPING HOLE SLIDE 2181'-2196' & 2751'- 2766'
9/19/2009	0:00 - 13:00	13.00	DRLPRO	02	D	P		DRILL,SLIDE & SURVEY 3193' - 4616' 1423' @ 109.4 FPH, RPM 45, MRPM 98, SPM 125, GPM 473, PU/SO/RPOT 120/100/114, ON/OFF PSI 1500/1140, DIFF PSI 360, SWEEPING HOLE
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL& SURVEY 4616'-5732' 1116' @ 106.2 FPH, WOB 18, RPM 45, MRPM 98, SPM 125, GPM 473, PU/SO/ROT 145,120,135, ON/OFF PSI 1662/1365, DIFF PSI 297, SWEEPING HOLE
9/20/2009	0:00 - 0:30	0.50	DRLPRO	02	D	P		DRILL 5732'-5785' 53' @ 106 FPH
	0:30 - 6:30	6.00	DRLPRO	08	B	Z		WAIT ON MECHANIC TO REPAIR ROTARY MOTOR
	6:30 - 0:00	17.50	DRLPRO	02	D	P		DRILL 5785'- 6892' 1107' 63.2 FPH, WOB 20, RPM 45, MRPM 98, SPM 125, GPM 473, PU/SO/ROT 165/150/155, ON/OFF PSI 1953/1734, DIFF PSI 219, VIS 36, WT 9.2
9/21/2009	0:00 - 15:30	15.50	DRLPRO	02	D	P		DRILL 6892'-7873 981' @ 63.2 FPH, WOB 24, RPM 45,MRPM 105, SPM 125, GPM 473, PU/SO/ROT 180/135/160, ON/OFF PSI 2350/2260, DIFF PSI 90, VIS 40, MW 10.7
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:00 - 18:30	2.50	DRLPRO	02	D	P		DRILL 7873'- 7968' 95' @ 38 FPH
	18:30 - 19:30	1.00	DRLPRO	08	B	Z		REPAIR # 1-2 PUMP POP OFFS & KELLY SPINNERS
	19:30 - 0:00	4.50	DRLPRO	02	D	P		DRILL 7968'-8140' 172' @ 38 FPH, WOB 24, RPM 50, MRPM 94, SPM 120,GPM 454, PU/SO/ROT 180/145/170, ON/OFF PSI 2682/2337, DIFF PSI 345, VIS 40, MW 11.0
9/22/2009	0:00 - 5:00	5.00	DRLIN1	02	D	P		DRILL 8140'-8252' 112' @ 22.4 FPH, WOB 24, RPM 50, MRPM 94, SPM 120, GPM 473, PU/SO/ROT 180/145/170, ON/OFF PSI 2682/2337, DIFF PSI 345, VIS 40, MW 11.0
	5:00 - 6:30	1.50	DRLIN1	05	C	P		CIRC F/ BIT TRIP
	6:30 - 10:30	4.00	DRLIN1	06	A	P		TOOH TO LD DIR TOOL,SWITCH MOTORS & BIT
	10:30 - 14:00	3.50	DRLIN1	06	A	P		SWITCH BITS & MOTOR & TIH
	14:00 - 14:30	0.50	DRLIN1	03	E	P		WASH & REAM 90' TO BOTTOM. 20' FILL. HOLE UNLOADING CUTTINGS
	14:30 - 16:00	1.50	DRLIN1	02	B	P		DRILL 8252'-8315' 63' @ 42 FPH
	16:00 - 16:30	0.50	DRLIN1	07	A	P		RIG SERVICE

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# US ROCKIES REGION

## Operation Summary Report

Well: NBU 1022-9K-2T	Spud Conductor: 5/18/2009	Spud Date: 5/27/2009
Project: UTAH-UINTAH	Site: CIGE 14 PAD	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 3/24/2009	End Date: 9/24/2009
Active Datum: RKB @5,170.00ft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	16:30 - 0:00	7.50	DRLIN1	02	B	P		DRILL 8315'- 8726' 411' @ 54.8 FPH, WOB 18-20, RPM 50, MRPM 73, SPM 120, GPM 454, PU/SO/ROT 180/145/168, ON/OFF PSI 2550/2315, DIFF PSI 235, VIS 42, MW 11.5
9/23/2009	0:00 - 1:30	1.50	DRLPRO	02	B	P		DRILL 8726'-8800 TD. 74' TOTAL @ 49.3 FPH
	1:30 - 2:30	1.00	DRLPRO	05	C	P		CIRC F/ SHORT TRIP TO SHOE
	2:30 - 7:00	4.50	DRLPRO	06	A	P		SHORT TRIP TO SHOE
	7:00 - 8:30	1.50	DRLPRO	05	C	P		CIRC TO LAY DOWN DRILL STRING
	8:30 - 13:30	5.00	DRLPRO	06	A	P		( HELD SAFETY MEETING ) RIG UP KIMZEY LAYDOWN DRILL STRING,PULL WEAR BUSHING
	13:30 - 15:30	2.00	DRLPRO	21	E	Z		WAIT ON BAKER ATLAS
	15:30 - 22:30	7.00	DRLPRO	11	G	P		( HELD SAFETY MEETING ) RIG UP BAKER, SLOW RIG UP. TOOL Failer. RUN NETRON,GAMMA RAY & TTRM F/ 8550', GAMMA TO SURFACE
	22:30 - 23:00	0.50	DRLPRO	12	A	P		( HELD SAFETY MEETING ) RIG UP KIMZEY CSG CREW
	23:00 - 0:00	1.00	DRLPRO	12	C	P		RUN 4.5 PRODUCTION CSG
9/24/2009	0:00 - 5:00	5.00	DRLPRO	12	C	P		RUN 4.5 PRODUCTION CSG TO 8557' BRIDGED OFF,HOOK UP CIRC SWEDGE & WASH F/ 8557'-8600',RUN CSG TO 8776' SHOE DEPTH. 8738' FLOAT DEPTH
	5:00 - 6:00	1.00	DRLPRO	05	D	P		HOOK UP BJ HEAD & CIRC OUT GAS W/ RIG PUMP
	6:00 - 8:30	2.50	DRLPRO	12	E	P		( HELD SAFETY MEETING ) SWITCH LINES & PSI TEST TO 5000 PSI. PUMP 40 BBLS WATER SPACER @ 8.3 PPG, PUMP LEAD 215.6 BBLS,462 SCKS PREMIUM LITE 11 CMT, 11.6 PPG, 2.62cF/SACK YIELD. PUMP TAIL 285.3 BBLS, 1223 SCKS 50:50:2 POZ MIX CMT, 14.3 PPG, 1.31cF/SACK YIELD. FLUSH LINES,DROP PLUG & DISPLACE W/ 135.8 BBLS WATER @ 8.3 PPG W/ CLAYTREAT,1 GL MAGNACIDE & CORR INHIBITER. BUMP PLUG W/ 3165 PSI,ORIGINAL PUMP PSI 2550, 616 OVER PSI, 100% RETURNS W/ 40 BBLS CMT BACK TO SURFACE. SET CSG W/ 50K STRING WT. RIG DOWN BJ TOP OF TAIL 2700'
	8:30 - 12:30	4.00	DRLPRO	14	A	P		NIPPLE DOWN BOP,CLEAN MUD PITS. RELEASE RIG @ 12:30 09/24/2009

RECEIVED October 29, 2009

# **US ROCKIES REGION** **Operation Summary Report**

Well: NBU 1022-9K-2T	Spud Conductor: 5/18/2009	Spud Date: 5/27/2009
Project: UTAH-UINTAH	Site: CIGE 14 PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 10/19/2009	End Date: 10/23/2009
Active Datum: RKB @5,170.00ft (above Mean Sea Level)		UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2, 126.00/W/0/1,484.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/19/2009	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING #1, DAY 1,
	7:15 - 9:00	1.75	COMP	30	A	P		MIRU SERVICE UNIT, N/D WH, N/U BOPS AND TBG EQUIP.
	9:00 - 13:00	4.00	COMP	31	I	P		P/U2 3/8" TBG W/ 3 7/8" BIT TIH TO @ 8000',
	13:00 - 15:00	2.00	COMP	31	I	P		TOOH W/ TBG, N/D BOPS, N/U FRAC VALVE, SWI SDFN
10/20/2009	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING #2, DAY 2
	7:15 - 8:30	1.25	COMP	33	C	P		R/U B&C QUICK TEST, PRESSURE TEST CSG AND FRAC VALVE TO 7000# FOR 15 MIN, OK, R/D TESTER
	8:30 - 15:00	6.50	COMP	37	B	P		( STG #1 PERF ) R/U SCHLUMBERGER WIRELINE, RIH W/ 3 3/8" PERF GUNS, PERF THE MESAVERDE @ 8646'- 8648' 4-SPF, 8616'- 8620' 4-SPF, 8520'- 8526' 3-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE, 120* PHS, 42 HOLES. SWI, SDFN,
10/21/2009	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING W/ SCHLUMBERGER AND RIG,
	7:15 - 7:30	0.25	COMP	36	E	P		( STG #1 ) R/U SCHLUMBERGER FRAC, PRESSURE TEST SURFACE LINE TO 8000#, WHP = 62 #, BRK DN PERF @ 4754 # @ 3 B/M, INJ-RT = 50.2 B/M, INJ-P = 4800 #, ISIP = 2612 #, F.G.= 0.73 , PUMP 3BBLs 15% HCL AHEAD OF INJ, CALC ALL PERF OPEN, PUMP 711 BBLs SLK WTR & 21414 # OTTAWA SAND, ISIP = 2551 #, F.G.= 0.73 , NPI = -61 , MP = 6486 #, MR = 51.4 B/M, AP = 4576 # AR = 48.5 B/M, 16414 # OTTAWA 30/50 SD, 5000 # TLC SD, 67 GALS CLAYTREAT, 14 GALS FRW, 133 GAL NALCO SCALE INHIB, 14 GALS NALCO BIOCID,
	7:30 - 9:15	1.75	COMP	36	E	P		COMMENTS: GOOD JOB, PERFORATION WAS SHOT OFF OF BAKER INDUCTION-DENSITY-NEUTRON LOG ( STG #2 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 8400', PERF THE MESAVERDE @ 8366'- 8370' 4-SPF, 8256'- 8260' 3 -SPF, 8240'- 8244' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 40 HOLES, WHP = 855 #, BRK DN PERF @ 3734 #, @ 5 B/M, INJ-RT = 50.2 B/M, INJ-P = 4551 #, ISIP = 2567 #, F.G.= 0.74 , CALC ALL PERF OPEN, PUMP 1437 BBL SLK WTR & 59370 # OTTAWA SAND, ISIP = 3093 #, F.G. = 0.80 , NPI = 526, MP = 6176 #, MR = 51.6 B/M, AP = 4323 #, AR = 48 B/M, 54370 # 30/50 OTTAWA SD, 5000 # TLC SD, 143 GALS CLAYTREAT, 28 GALS FRW, 127 GALS NALCO SCALE INHIB, 29 GALS NALCO BIOCID, COMMENTS: GOOD JOB, PERFORATION SHOT OFF OF BAKER INDUCTION-DENSITY- NEUTRON LOG'

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**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 1022-9K-2T	Spud Conductor: 5/18/2009	Spud Date: 5/27/2009
Project: UTAH-UINTAH	Site: CIGE 14 PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 10/19/2009	End Date: 10/23/2009
Active Datum: RKB @5,170.00ft (above Mean Sea Level)		
UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:15 - 11:15	2.00	COMP	36	E	P		( STG #3 ) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 8074', PERF THE MESAVERDE @ 8040'- 8044' 4-SPF, 7976'- 7978' 4-SPF, 7846'- 7850' 3-SPF, 7790'- 7792' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 42 HOLES, WHP = 650 #, BRK DN PERF @ 5266 # @ 4 B/M, INJ-RT = 48 B/M, INJ-P = 5378 #, ISIP = 3020 #, F.G = 0.83, CALC 87% PERF OPEN, PUMP 1444 BBLS SLK WTR & 49619 # OTTAWA SAND, ISIP = 2996 # F.G. = 0.81, NPI = -24, MP = 7189 #, MR = 50 B/M, AP = 5004 #, AR = 36.9 B/M, 44619 # 30/50 OTTAWA SD, 5000 # TLC SD, 143 GALS CLAYTREAT, 30 GALS FRW, 110 GALS NALCO SCALE INHIB, 29 GALS NALCO BIOCID COMMENTS: RESPOT ACID ON BOTTOM, PERFORATION WAS SHOT OFF OF BAKER INDUCTION-DENSITY-NEUTRON LOG
	11:15 - 13:00	1.75	COMP	36	E	P		( STG #4 ) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7688', PERF THE MESAVERDE @ 7654'- 7658' 4-SPF, 7610'- 7612' 4-SPF, 7584'- 7586' 3-SPF, 7548'- 7552' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE 120* PHS, 42 HOLES, WHP = 533 #, BRK DN PERF @ 3609 # @ 4 B/M, INJ-RT = 51.2 B/M, INJ-P = 4448 #, ISIP = 2426 #, F.G = 0.75, CALC ALL PERF OPEN, PUMP 1449 BBLS SLK WTR & 60874 # OTTAWA SAND, ISIP = 3071 #, F.G = 0.83, NPI = 645, MP = 5388 #, MR = 51.5 B/M, AP = 4029 #, AR = 48.8 B/M, 55874 # 30/50 OTAWA SD, 5000 # TLC SD, 145 GALS CLAYTREAT, 29 GALS FRW, 121 GALS NALCO SCALE INHIB, 29 GALS NALCO BIOCID, COMMENTS: GOOD JOB
	13:00 - 15:00	2.00	COMP	36	E	P		( STG #5 ) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP7355', PERF THE MESAVERDE @ 7322'- 7325' 3-SPF, 7248'- 7250' 4-SPF, 7166'- 7170' 3-SPF, 7092'- 7096' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 41 HOLES, WHP = 533 #, BRK DN PERF @ 3104 #, @ 6 B/M, INJ-RT = 51.2 B/M, INJ-P = 3900 #, ISIP = 1808 #, F.G = 0.68, CALC ALL PERF OPEN, PUMP 2196 BBLS SLK WTR & 86564 # OTTAWA SAND, ISIP = 2613 #, F.G. = 0.79, NPI = 805, MP = 5112 #, MR = 51.5 B/M, AP = 3748 #, AR = 49.1 B/M, 81564 # 30/50 OTTAWA SD, 5000 # TLC SD, 218 GALS CLAYTREAT, 44 GALS FRW, 148 GALS NALCO SCALE INHIB, 48 GALS NALCO BIOCID. COMMENTS: GOOD JOB

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# US ROCKIES REGION

## Operation Summary Report

Well: NBU 1022-9K-2T		Spud Conductor: 5/18/2009		Spud Date: 5/27/2009	
Project: UTAH-UINTAH		Site: CIGE 14 PAD			Rig Name No: MILES-GRAY 1/1
Event: COMPLETION		Start Date: 10/19/2009		End Date: 10/23/2009	
Active Datum: RKB @5,170.00ft (above Mean Sea Level)		UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:00 - 16:30	1.50	COMP	36	E	P		( STG #6 ) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7046', PERF THE MESAVERDE @ 7012'- 7016' 3-SPF, 7002'- 7004' 3-SPF, 6904'- 6907' 3-SPF, 6858'-6862' 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE 120* PHS, 43 HOLES, WHP = 250 #, BRK DN PERF @ 2584 #, @ 6 B/M, INJ-RT = 51.1 B/M, INJ-P = 3468 #, ISIP = 1838 #, F.G.= 0.69 , CALC ALL PERF OPEN, PUMP 1622 BBLS SLK WTR & 68626 # OTTAWA SAND, ISIP = 2317 # F.G.= 0.76 , NPI = 479 , MP = 4607 #, MR = 51.1 B/M, AP = 3442 #, AR = 48.8 B/M, 63626 # 30/50 SD, 5000 # TLC SD, 160 GALS CLAYTREAT, 32 GALS FRW, 127 GALS NALCO SCALE INHIB, 38 GALS NALCO BIOCID. COMMENTS: GOOD JOB
	16:30 - 18:00	1.50	COMP	37	B	P		( PERF STG #7 ) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 6812', PERF THE MESAVERDE @ 6778'- 6782' 3-SPF, 6768'- 6770' 4-SPF, 6706'- 6708' 3-SPF, 6560'- 6564' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE 120* PHS, 38 HOLES, SWI SDFN.
10/22/2009	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING #4, DAY 4
	7:15 - 9:30	2.25	COMP	36	E	P		( STG #7 ) WHP = 835#, BRK DN PERF 2 2617# @ 6 B/M, INJ-RT = 51.2 B/M, INJ-P = 4466#, ISIP = 1508#, F.G. = 0.67, CALC 82 % PERF OPEN, PUMP 2360 BBLS SLK WTR AND 98814 # OTTAWA SAND, ISIP = 2635 #, F.G.= 0.82, NPI = 1127, MP = 4765#, MR = 51.5 B/M, AP = 3892#, AR = 49.5 B/M, 93814# 30/50 OTTAWA SD, 5000# TLC SD, 276 GALS CLAYTREAT, 47 GALS FRW, 107 GALS NALCO SCALE INHIB, 55 GALS NALCO BIOCID. COMMENTS: GOOD JOB
	9:30 - 15:00	5.50	COMP	31	I	P		( KILL PLUG ) RIH W/ HALLIBURTON 8K CBP, SET CBP @ 6510', POOH, R/D SCHLUMBERGER WIRELINE AND FRAC CREW, N/D FRAC VALVE N/U BOPS AND TBG EQUIP. P/U 3 7/8" MILL W/ POBS, TIH W/ 2 3/8" TBG TO @ 6000', R/U POWER SWIVEL AND EQUIP TO DRILL IN AM, SHUT WELL IN SDFN
10/23/2009	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING #5, DAY 5,

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**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 1022-9K-2T	Spud Conductor: 5/18/2009	Spud Date: 5/27/2009
Project: UTAH-UINTAH	Site: CIGE 14 PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 10/19/2009	End Date: 10/23/2009
Active Datum: RKB @5,170.00ft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	44	C	P		<p>TIH TAG CBP @ 6510', R/U POWER SWIVEL, ESTB CIRC DN TBG OUT CSG, ( DRLG CBP #1 ) 6510', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 25# DIFF, RIH TAG @ 6780', C/O 32' SAND, FCP = 50#,</p> <p>( DRLG CBP #2 ) 6812', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 50 # DIFF, RIH TAG @ 7016', C/O 30' SAND, FCP = 75#,</p> <p>( DRLG CBP #3 ) 7046', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 50# DIFF, RIH TAG @ 7325', C/O 30' SAND, FCP = 125#,</p> <p>( DRLG CBP #4 ) 7355', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 50 # DIFF, RIH TAG @ 7650', C/O 38', SAND, FCP = 175#,</p> <p>( DRLG CBP #5 ) 7688', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 50 # DIFF, RIH TAG @ 8044', C/O 30' SAND, FCP = 225#,</p> <p>( DRLG CBP #6 ) 8074', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 100 # DIFF, RIH TAG @ 8370', C/O 30' SAND, FCP = 325#,</p> <p>( DRLG CBP # 7 ) 8400', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 50 # DIFF, RIH TAG @ 8670', C/O 64' SAND TO PBTD @ 8734', FCP = 375#,</p> <p>CIRC WELL CLEAN, R/D POWER SWIVEL, POOH LAY DN 17 JTS ON TRAILER, LAND TBG W/ HANGER</p> <p>W/ 260 JTS 2 3/8" J-55 TBG, EOT @ 8211.17'. R/D FLOOR AND TBG EQUIP, N/D BOPS, DROP BALL DN TBG, N/U WH, PUMP OFF THE BIT @ 1400 #, WAIT 30 MIN FOR BIT TO FALL TO BTM, OPEN WELL UP ON 20/64 CHOKE, FTP = 950 #, SICP = 1750 #, TURN WELL OVER TO FBC @ 2:00 PM. W/ 7431 BBLS WTR LTR, AVG. 15 MIN / PLUG AND @ 30' SAND / PLUG,</p> <p>R/D SERVICE UNIT MOVED TO SIDE OF LOC, SDFWE</p> <p>286 JTS 2 3/8" J-55 TBG DELV. 260 JTS LANDED 26 JTS RETURNED</p> <p>KB. = 18.00' HANGER = .83' 260 JTS 2 3/8" J- 55 TBG = 8190.14' XN- NIPPLE POBS = 2.20'</p> <p>EOT = 8211.17'</p> <p>7 AM FLBK REPORT: CP 1650#, TP 1750#, 20/64" CK, 50 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED:6166 BBLS LEFT TO RECOVER: 6053</p>
10/24/2009	7:00 -			33	A			

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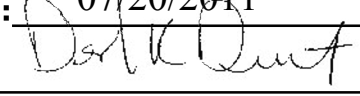
**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 1022-9K-2T		Spud Conductor: 5/18/2009		Spud Date: 5/27/2009	
Project: UTAH-UINTAH		Site: CIGE 14 PAD		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 10/19/2009		End Date: 10/23/2009	
Active Datum: RKB @5,170.00ft (above Mean Sea Level)		UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/25/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1600#, TP 1825#, 20/64" CK,35 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 7141 BBLS LEFT TO RECOVER: 5078
	11:00 -		PROD	50				WELL TURNED TO SALE @ 1100 HR ON 10/25/09 - FTP 1925#, CP 1550#, 2000 MCFD, 35 BWPD, 20/64 CK
10/26/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1400#, TP 1850#, 20/64" CK, 30 BWPH, MEDIUM SAND, 1.6 GAS TTL BBLS RECOVERED: 7971 BBLS LEFT TO RECOVER: 4248
10/27/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1450#, TP 1800#, 20/64" CK, 25 BWPH, MEDIUM SAND, 1.9 GAS TTL BBLS RECOVERED: 8666 BBLS LEFT TO RECOVER: 3553
10/28/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1250#, TP 1750#, 20/64" CK, 25 BWPH, LIGHT SAND, 2 GAS TTL BBLS RECOVERED: 9266 BBLS LEFT TO RECOVER: 2953
10/29/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1225#, TP 1700#, 20/64" CK, 20 BWPH, CLEAN SAND, 0 GAS TTL BBLS RECOVERED: 9851 BBLS LEFT TO RECOVER: 2368

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01196-B
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-9K-2T
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2126 FSL 1483 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 09 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047388800000
<b>PHONE NUMBER:</b> 720 929-6587 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> Uintah		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input checked="" type="checkbox"/> <b>SPUD REPORT</b> Date of Spud: 5/18/2009	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 05/18/2009 AT 1530 HRS.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> May 19, 2009		
<b>NAME (PLEASE PRINT)</b> Sheila Upchego	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/19/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
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<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-9K-2T			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2126 FSL 1483 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 09 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047388800000			
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/12/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> <b>CASING REPAIR</b>  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <span style="border: 1px solid black; padding: 2px;">Wellhead Repair</span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input checked="" type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; padding: 2px;">Wellhead Repair</span>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.					
<b>Accepted by the Utah Division of Oil, Gas and Mining</b>  Date: <u>07/20/2011</u> By: <u></u>					
<b>NAME (PLEASE PRINT)</b> Gina Becker		<b>PHONE NUMBER</b> 720 929-6086			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst II			
<b>DATE</b> 7/12/2011					

**WORKORDER #:**

**Name:** NBU 1022-9K-2T  
**Surface Location:** NESW Sec. 9, T10S, R22E  
 Uintah County, UT

7/1/2011

**API:** 4304738880      **LEASE#:** UTU-01196-B

**ELEVATIONS:** 5152' GL      5170' KB

**TOTAL DEPTH:** 8800'      **PBTD:** 8738'

**SURFACE CASING:** 9 5/8", 36# J-55 @ 2035'

**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 @ 8776'  
 TOC @ 94' per CBL (with min 50' isolation)

**PERFORATIONS:** Mesaverde 6560' – 8648'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

**GEOLOGICAL TOPS:**

1107' Green River  
 1886' Mahogany  
 4300' Wasatch  
 6702' Mesaverde

## **NBU 1022-9K-2T- WELLHEAD REPAIR PROCEDURE**

### **PREP-WORK PRIOR TO MIRU:**

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

### **WORKOVER PROCEDURE:**

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure ).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~6510'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

**CUT/PATCH PROCEDURE:**

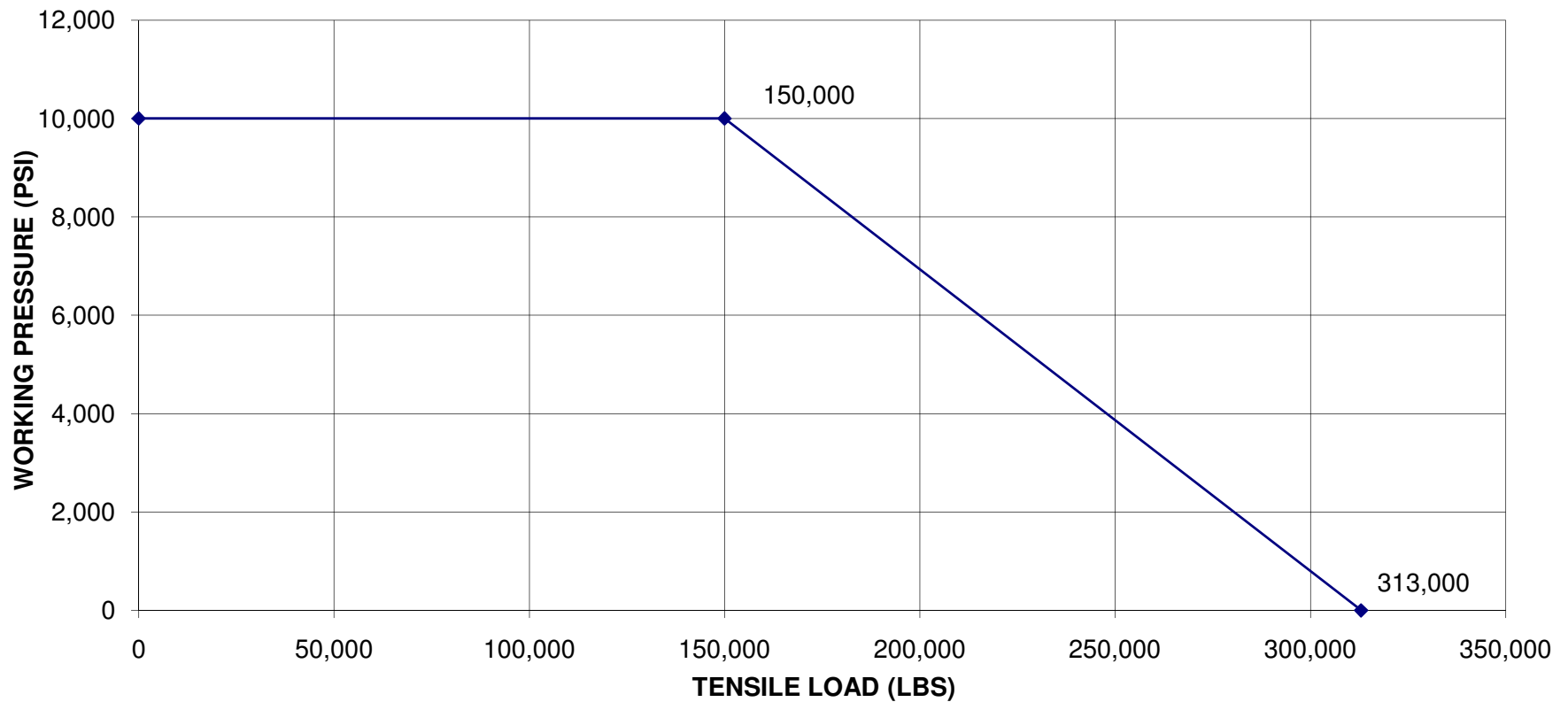
1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOOH.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6460'. Clean out to PBTD (8738').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

**BACK-OFF PROCEDURE:**

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 1/2" overshoot. RIH, latch fish. Pick string weight to neutral.
4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
5. Back-off casing, POOH.

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to  $\pm 7000$  ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place  $\pm 7000$  ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6460'. Clean out to PBTD (8738').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH  
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L  
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:  
11,222 PSI @ 0 TENSILE  
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:  
Tensile Strength w/ 0 Int. Press.= 472,791lbs.  
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

**RECEIVED** Jul. 12, 2011





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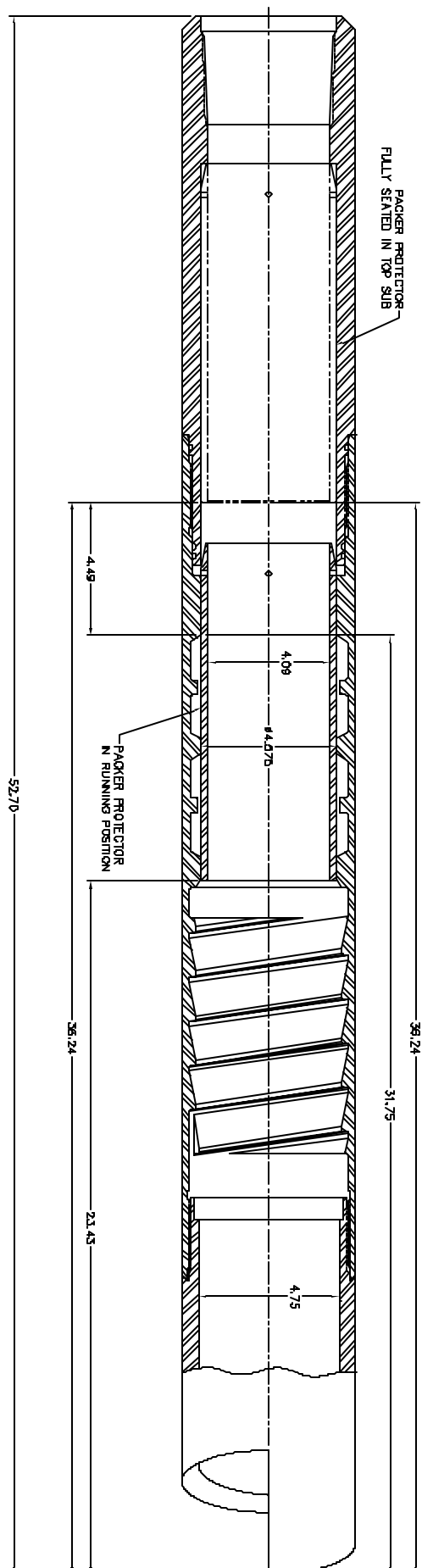
## **Logan High Pressure Casing Patches Assembly Procedure**

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

510L-005-001 4-1/2" LOGAN HP CASING PATCH



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01196-B
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-9K-2T
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2126 FSL 1483 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 09 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047388800000
<b>PHONE NUMBER:</b> 720 929-6514		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/14/2011	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	<input checked="" type="checkbox"/> CASING REPAIR	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> APD EXTENSION	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator has concluded the wellhead/casing repairs on the subject well location. Please see that attached chronological history for details of the operations.		
<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/17/2012	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 1022-9K-2T			Spud Conductor: 5/18/2009				Spud Date: 5/27/2009		
Project: UTAH-UINTAH			Site: CIGE 14 PAD				Rig Name No: SWABBCO 6/6		
Event: WELL WORK EXPENSE			Start Date: 12/12/2011				End Date: 12/14/2011		
Active Datum: RKB @5,170.00usft (above Mean Sea Level)			UWI: NE/SW/0/10/S/22/E/9/0/0/6/PM/S/2,126.00/W/0/1,484.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
12/12/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= MOVE ON SLICK ROADS	
	7:15 - 17:00	9.75	WO/REP	30		P		MOVE RIG & EQUIP FROM NBU 1022-8IT TO 1022-9K-2T SPOT RIG & EQUIP RU RIG & PUMP CONTROL TUB W/ 20 BBLS TMAC ND WELLHEAD NU BOPS RU FLOOR & TUBING EQUIP CONTROL CSG W/ 20 BBLS TMAC UNLAND TUBING LD HNGR POOH W/ 260 JNTS 2-3/8" J-55 RU W/L RIH W/ GUAGE RNG TO 6600' POOH PU 10K CIBP SET @ 6500' DUMP BAIL 2 SKS CEM ON PLG FILL HOLE W/ TMAC PRESS TEST TO 500# PREP TO REPAIR W/H IN AM SIW SDFN	
12/13/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= PWR SWVL SAFETY	
	7:15 - 17:00	9.75	WO/REP	30		P		SIWP= 0 PSI ND BOPS PU INT CUTTER CUT CSG BELOW HNGR PU OVERSHOT RIH RU W/L & CSG TONGS B/O PUP PU NEW 4-1/2"X10' PUP RIH THREAD ONTO CSG TORQUE TO 7000# W/ 14 ROUNDS PULL 90000# TENSION NU TESTER & TEST TO 3500# 30 MIN W/ 24# LOSS SET SLIPS NUWELLHEAD & BOPS RU FLOOR & TUBING EQUIP PU 3-7/8" BIT RIH TAG TOC @ 6490' POOH 10 STANDS SIW SDFN	
12/14/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= FOAM UNIT SAFETY	
	7:15 - 17:00	9.75	WO/REP	30		P		SIWP= 0 PSI RIH 10 STANDS EST CIRC W/ FOAM AIR UNIT C/O & DRILL THRU CEM & CIBP @ 6500' W/ 0 INCREASE CIRC CEAN CONTINUE TO RIH TAG @ 8253' C/O & DRILL TO 8660' TAG SOLID CIRC CLEAN POOH LD 15 JNTS LAND TUBING ON HNGR @ EOT 8211.17' DROP BALL PUMP OFF BIT @ 2500# PU RIH W/ BROACH TO XN NPL RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD RD RIG PREP TO MOVE IN AM TO 1022-10N PAD	